

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Rocky Flats**

Site Summary Level: **Rocky Flats Environmental Technology Site**

Project **RF020 / Building 881 Cluster Closure Project**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0363**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

Purpose: Maintain the B881/865/883 Cluster facilities prior to beginning active D&D. Initiate D&D planning and execution and final project closure. Reduce hazards, and systematically shut down rooms, areas and entire facilities while carrying out minimum operations, surveillance, and maintenance activities required to ensure regulatory compliance and safe operations of the facilities. Hazards Reduction will be undertaken so that required surveillance, monitoring and maintenance of the buildings can be reduced, thus freeing-up funding for other D&D and closure activities. Development of Project Execution Plans will be initiated as the first step of both Hazards Reduction and D&D.

Scope: The Building 881 Cluster Closure Project includes 881, 865, 883, 881 Trailers, 881/883 Stacks, 881/883 Tunnel, and Tank s. The scope of this Cluster Closure Project is summarized below for the six major activities.

Facility Landlord Functions:

Conduct surveillance's on required building systems as mandated (i.e. fire systems, criticality alarm systems, HVAC systems). Conduct as required routine compliance surveillance/inspections on RCRA units, security systems, radiological control requirements, industrial safety, etc. Conduct as required minimum baseline maintenance activities on required building systems, facility support systems/structures, environmental compliance and waste management support systems, security systems, etc. Provide operations management and technical support for building baseline activities and in support of risk reduction activities.

Stabilization/Hazards Reduction:

The scope of this activity is for stabilization and hazards removal in Buildings 881, 865, and 838 and associated facilities. Specific stabilization activities include; developing a Project Execution Plan (PEP), work summary plans, Integrated Work Control Plans(IWCP), removal of hazardous and non-hazardous materials, holdup removal, and emptying storage areas to reduce fire loading. Activities may include inventory and removal of unattached hazardous materials from the facilities and immediate areas, such as regulated hazardous chemicals, beryllium, and gas cylinders. RCRA unit closures will be completed where possible. An economic disposition determination will be made for all unneeded property. The end state of this element will be achieved when the associated facilities are determined to be in safe, stable conditions with minimum mortgage costs, while awaiting decontamination, dismantlement, and demolition.

Deactivation:

The Rocky Flats Cleanup Agreement (RFCA) defines that no deactivation activity occurs in these buildings.

Decommissioning:

The scope of the decommissioning phase includes all of the activities required to decontaminate, dismantle and demolish building clusters in preparation for IHSS remediation and final closure. This scope also includes all prerequisite planning, project management and characterization activities to support the decommissioning program (i.e. engineering, planning, scheduling, industrial safety, criticality and nuclear safety, regulatory programs).

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Closure:

This activity includes the final close-out of the cluster site upon completion of decommissioning and IHSS remediation, and includes the regulatory and project close-out documentation required by the Department of Energy and the Rocky Flats Cleanup Agreement (RFCA).

Remediate/Contain High Risk IHSS:

The scope of this activity includes remediation, excavation, or containment as appropriate to close the High Risk IHSSs in the Nuclear Production Zone.

The high risk IHSSs include under building contamination for 3 buildings. The remediation/containment of these IHSSs can be broken into three activities: 1) Planning/Authorization; 2) Remediation/Disposition; 3) Final Regulatory Approval.

Technical Approach:

The technical strategy for the B881 Clusters Landlord Functions is to systematically close rooms, areas, and entire facilities while carrying out the minimum operational, surveillance, and maintenance activities required to ensure regulatory compliance and safe operations of ongoing activities in the facilities. Utilities will be reduced wherever possible and eventually maintained at a minimum required level to support final D&D activities.

The "Property Disposal Planning Templates" were utilized for the planning of Equipment Disposition and Removal. The "2006 Personnel Relocation Planning Template" was utilized for the planning of Personnel Relocations.

Property disposition/removal and relocation of personnel not essential to follow on activities will be performed under this WBS as follows:

Equipment Disposition: The equipment removal activity is linked to Deactivate Process Equipment activity in that prior to removing equipment, it is accounted for in the property disposition system, electrically isolated, drained of all fluids, decontaminated or fixative applied, and packaged for shipment to its final destination. An alternative analysis study will be performed to determine which destination is the most economical to ship to. That is, whether free release and shipment to Property Utilization & Disposal, packaged for shipment to the Nevada Test Site low-level waste repository, or whether packaging for shipment to a metal melting recycler is the most economical. The decision on whether to waste the equipment or ship to a recycler will depend on the size of equipment, how much disassembly and size reduction is required, the decontamination and sampling required, and any other labor intensive waste acceptance criteria requirement. Some equipment and tools may be requested by other Department of Energy Sites. The intent of the project will be to minimize all sampling and packaging efforts for the shipment for this type of equipment. Some property may be shipped whole from contaminated area to contaminated area, to the extent possible.

Personnel Relocation: The activity to remove personnel from the cluster resulted from a lesson learned on the B123 Removal Project. Personnel were still trying to perform mission activities while the decommissioning team was attempting characterization and removal actions. So, the purpose of this activity is to remove personnel that are not essential to the Landlord and Hazards Reduction phase and then again as efforts are transitioned into decommissioning.

The Hazard Reductions technical strategy will be to: 1) Eliminate all routine activities/operations and associated personnel; 2) Place all the buildings in a RCRA stable configuration; 3) Eliminate fire loads and hazardous materials; 4) Reduce risk of non-fixed contamination allowing ventilation requirements to be reduced; 5) Drain all non - D&D required process and utility systems susceptible to freezing; 6) Establish minimum routine

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surveillance's.

The Decommissioning will be performed in accordance with the Rocky Flats Environmental Technology Site Facility Disposition Program Manual (MAN-076-FDPM REV.0) (FDPM). Detailed planning is scheduled to be performed in FY03 and FY04. The current 2006 plan, including the schedule and estimate, is based upon the Kaiser-Hill, LLC. Facility Disposition Cost Model, Revision 1, January 1999. The estimate, schedule, and technical strategy will be revised at the completion of the D&D planning to reflect the results of the detailed planning. A subcontractor will perform demolition of the facilities, and completion milestones are included for the issuance of a bid package, and the award of a subcontract for each cluster.

Restoration of IHSSs/PACs/UBCs/Plumes and OUs will be done in accordance with Remediation of IHSSs/PACs/UBCs/Plumes and OUs will be done in accordance with RFCA and support the RFCA Vision statement and site's closure goals. The closure strategy, identified through RFCA, looks for reduction of risk to human health and the environment, being ultimately protective of surface water, and reduction of landlord costs. Because of the complexity of the remediation tasks in the Industrial Area, the general rule is that one year is required for the planning and characterization process (planning documents, agency review and approval, sampling, data analysis) and one year is required for remediation (subcontractor procurement, mob/demob, field construction, confirmatory sampling, data analysis, closeout reporting). Because the 2006 closure strategy significantly compresses the schedule, the remediation schedule becomes compressed as well, and is especially dependent on the progress of D&D activities. To address the D&D issue, the general strategy is to initiate characterization during the last year of D&D for those D&D-dependent IHSS/PAC/UBCs and begin remediation immediately following completion of D&D. While Environmental Restoration is responsible for characterization, verification of remediation and closeout of all IHSS/PAC/UBCs, below-ground tanks and above-ground tanks beside and inside buildings will be removed as part of the D&D effort. In addition to closely integration with D&D, IHSS/PAC/UBCs are grouped to gain efficiency in cost and schedule. Grouping allows savings in preparation and review of planning documents, remediation contracting and data management. Schedule efficiencies are gained by incurring the minimum events described above.

Project Status in FY 2006:

This project will be completed.

Post-2006 Project Scope:

No activities are currently scheduled to occur after 2006 for this project.

Project End State

All buildings will be demolished and/or removed, and the under building soils and IHSS remediated to site closure standards as identified in RFCA. SNM contained in the scrubber and ducting will be shipped off-site.

Cost Baseline Comments:

Cost estimates are based on assumptions and data developed by the technical groups that have responsibility for managing the work. To the extent practical, all cost estimates are Activity-Based Costs (ABC) and tied directly to a defined and detailed work scope. The estimates are developed at the activity level and are further divided into line items. Line items represent individual resource contributions to activities and are the lowest level of input to the planning system. Once the cost estimate is developed,

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each activity is evaluated for cost, technical and schedule risk and the appropriate contingency is determined. Detailed estimates and the basis of estimates (BOEs) for the 2006 Closure Plan are available at the Site.

Safety & Health Hazards:

The principle hazards in the Building 881 Cluster Closure Project are radiological, chemical, and standard industrial hazards commonly found in Production Buildings at RFETS. Specific hazards known to be contained in these facilities include Beryllium, and Uranium in various forms. Additional radioactive and chemical contaminants and hazardous materials are expected to be discovered during characterization. Most of these hazards will exist throughout the project and are related to characterization, hazardous material removal, decommissioning, remediation, and demolition. These hazards will be analyzed and categorized in accordance with the RFETS Safety and Health Program infrastructure policies, manuals, and procedures.

Safety & Health Work Performance:

This project will be completed within the RFETS Safety and Health Program and within the controls and authorization basis documents defined above to ensure the safety and health of the worker, public and the environment. RFETS has implemented an integrated safety management system consisting of the following elements: radiological safety, criticality safety, emergency management, fire safety, industrial hygiene, nuclear safety, occupational medicine, occupational safety, safeguards and security, safety integration, performance oversight, and standards management. RFETS provides site wide infrastructure programs for each functional area to establish consistent safety standards and support for this project. Safety and health success results from the efficient and effective implementation of these programs. This project is responsible for ensuring that the necessary elements of the safety and health programs are incorporated into the specific project plans and implementing documents, and that an appropriate Readiness Determination and Safety Evaluation Screen (SES)/Unreviewed Safety Question Determination (USQD) have been performed.

PBS Comments:

The B865/883 Cluster may be leased through the National Conversion Pilot Plant (NCPPI). If this occurs, Safe Shutdown in those facilities will not begin until the end of the lease. However, for planning purposes in this PBS, Safe Shutdown activities and milestones are scheduled. For simplicity of presentation, and due to the total annual funding allocation for the site, the appropriate planning activities for deactivation and D & D is generally displayed at a summary level. When funding levels are determined, and specific annual plans are prepared, it may be necessary to adjust the scopes and budgets for planning the physical activities. However, it should be noted that RFCA and safety concerns dictate that from six months to a year, it is required to prepare, obtain regulatory/public review, etc, prior to beginning physical D & D. The waste volumes listed herein include newly generated waste from deactivation, D & D, and IHSS remediation activities. The volumes do not include wastes routinely generated or wastes from landlord activities which are all contained in Project 2.

Baseline Validation Narrative:

Although the 2006 Closure Plan has not been officially validated, it has undergone a high level review by Rocky Flats Field Office (RFFO) and Headquarter personnel. Current independent validation efforts include the following: 1) RFFO has contracted an independent firm to perform a baseline confidence review of the 2006 Closure Plan by the end of FY99, and 2) the Office of Field Management (FM) has contracted a big-five accounting firm to validate the 2006 Closure Plan.

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In addition to the 2006 Closure Plan validation efforts, results/recommendations from several previous baseline validation efforts were used in the development of the 2006 Closure Plan. These validations included: 1) The U.S. Army Corps of Engineers (USACE) performed a validation of the Rocky Flats Ten Year Plan in FY97/FY98, 2) Kaiser-Hill contracted Price Waterhouse Coopers, LLP to conduct an independent validation effort of the 2010 Closure Project Baseline that concluded in May of FY99, and 3) Kaiser-Hill engaged Arthur Andersen, LLP to conduct a schedule and cost risk review of the 2010 Closure Project Baseline.

General PBS Information

Project Validated?

Date Validated:

Has Headquarters reviewed and approved project?

No

Date Project was Added: 12/1/1997

Baseline Submission Date:

FEDPLAN Project? Yes

Drivers:	CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
	Y	Y	N	N	N	Y	Y	Y

Project Identification Information

DOE Project Manager: Jessie Roberson

DOE Project Manager Phone Number: 303-966-2263

DOE Project Manager Fax Number: 303-966-4775

DOE Project Manager e-mail address: ten.year.plan@rfets.gov

Is this a High Visibility Project (Y/N):

Planning Section

Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006
PBS Baseline (current year dollars)	199,853	0	199,853	5,161	5,161	5,173	5,173	5,522	4,918	5,397	5,321	24,338	42,713	98,781	2,529

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Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006	
PBS Baseline (constant 1999 dollars)	180,165	0	180,165	5,161	5,161	5,173	5,173	5,522	4,789	5,147	4,970	22,266	38,272	86,691	2,174	
PBS EM Baseline (current year dollars)	199,853	0	199,853	5,161	5,161	5,173	5,173	5,522	4,918	5,397	5,321	24,338	42,713	98,781	2,529	
PBS EM Baseline (constant 1999 dollars)	180,165	0	180,165	5,161	5,161	5,173	5,173	5,522	4,789	5,147	4,970	22,266	38,272	86,691	2,174	
	2007	2008	2009	2010	2011- 2015	2016- 2020	2021- 2025	2026- 2030	2031- 2035	2036- 2040	2041- 2045	2046- 2050	2051- 2055	2056- 2060	2061- 2065	2066- 2070
PBS Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
0.00%	0.00%	0.00%	2.70%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%
2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070

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2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%

Project Reconciliation

Project Completion Date Changes:

Previously Projected End Date of Project: 9/30/2008

Current Projected End Date of Project: 5/2/2006

Explanation of Project Completion Date Difference (if applicable):

Scope Deletion

Efficiencies

New Scope

New Landlord scope includes services such as Nuclear Safety, Radiological Engineering, Laundry, Facility Management Overhead Support, etc. that were transferred into this PBS from other PBSs.

Landlord activities for buildings 865 and 863 that were formerly leased to NCPP

Transfer of the B883 and B865 facilities (National Conversion Pilot Project Facilities) and their landlord management responsibilities from Envirometals to K-H. The proposed conversion to NCPP did not occur and RFFO has requested that these buildings be transferred to K-H .

Cost Growth

The costs have been revised to be consistent with the Facility Disposition Cost Model that was developed to improve the basis and accuracy of the out year decommissioning cost estimates. This model is based on actual decommissioning costs incurred at Rocky Flats and actual cost data or bottom up estimates from other government and commercial facilities.

Science & Technology

Other

The scope of work and end state conditions for the 2006 Plan are similar to the current 2010 Baseline, with a four-year acceleration and a reduction in cost being the two most significant differences. The bottom-up estimate for the 2006 Plan is a \$1.65 billion improvement over the comparable activity-based bottoms-up detail estimate for 2010.

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Project Reconciliation

To close the Site four years earlier than the current 2010 Baseline requires a strategically different approach. The two key principles followed in preparing the 2006 Baseline were: 1) safely reducing the urgent risks first, and 2) performing work in a sequence that reduces or eliminates operations, maintenance and security costs (often referred to as - mortgage costs) as early as possible. Key to the 2006 Baseline approach is early closure of the secured Protected Area. Closing the Protected Area as soon as possible means that the high security and maintenance costs for this area can be redeployed to accelerate other closure activities. In addition, D&D and SNM risk reduction activities will be performed simultaneously rather than sequentially, supporting both the risk reduction and mortgage reduction principles. The D&D of non- and lower-contaminated facilities and most environmental remediation work will be deferred until later in the project to allow resources to be focused in the areas that result in the greatest reduction in risks and mortgage costs.

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	77,750	Actual 1997 Cost:	5,161	Actual 1998 Cost:	5,173
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	67,416	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):			1,820
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	69,236				

Project Cost Changes

	Cost Adjustments	Reconciliation Narratives
Cost Change Due to Scope Deletions (-):		
Cost Reductions Due to Efficiencies (-):		
Cost Associated with New Scope (+):	205	Rebaselining due to acceleration. New scope dollar estimate is not of audit quality.
Cost Growth Associated with Scope Previously Reported (+):		
Cost Reductions Due to Science & Technology Efficiencies (-):		
Subtotal:	69,441	
Additional Amount to Reconcile (+):	100,390	
Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	169,831	

Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Complete B881 Cluster Demo	RF-0411		9/30/2005		9/30/2005						
Complete 865/883 Cluster Demolition	RF-0461		9/30/2005		9/30/2005						
Complete PBD 020 - B881 Cluster Closure Project	RF-OTHE-20		5/2/2006		5/2/2006					Y	

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Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
PBD 020 Project Start			10/1/1997								

Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
Complete B881 Cluster Demo	RF-0411	Y									Kaiser Hill Internal (KHIs) Milestones
Complete 865/883 Cluster Demolition	RF-0461	Y									Kaiser Hill Internal (KHIs) Milestones
Complete PBD 020 - B881 Cluster Closure Project	RF-OTHE-20				Y	Y					Kaiser Hill Internal (KHIs) Milestones
PBD 020 Project Start				Y							PBD 020 Project Start

Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planned 2004
RS														
Assess.	NR	8.00	0.00	8.00										2.00
RS														
Cleanup	NR	8.00	0.00	8.00										
Fac.														
Decom.- Assess.	NF	33.00	0.00	33.00										33.00
Fac.														
Decom- Cleanup	NF	33.00	0.00	33.00										

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Category/Subcategory		Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035	
RS															
Assess.		NR	2.00	6.00											
RS															
Cleanup		NR		1.00	7.00										
Fac.															
Decom.- Assess.		NF	33.00												
Fac.															
Decom- Cleanup		NF		33.00											
Category/Subcategory		Units	Planned 2036 - 2040	Planned 2041 - 2045	Planned 2046 - 2050	Planned 2051 - 2055	Planned 2056 - 2060	Planned 2061 - 2035	Planned 2066 - 2070	Exceptions	Lifecycle Total				
RS															
Assess.		NR									8.00				
RS															
Cleanup		NR									8.00				
Fac.															
Decom.- Assess.		NF									35.00				
Fac.															
Decom- Cleanup		NF									35.00				
Release Sites															
Site Code	RSF ID	Change Flag	Description		Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
RFTS	3256		PAC 800-1200 \ Valve Vault 2		/	2005			2006				N		
RFTS	3257		PAC 800-1201 \ Radioactive Site south of Bldg 883		/	2005			2005				Y	Approved	

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Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
RFTS	3260		PAC 800-1204 \ Bldg 866 Spills	/	2005			2006				N		
RFTS	3261		PAC 800-1205 \ Bldg 881, East Dock	/	2004			2006				N		
RFTS	3268		PAC 800-1212 \ Building 866 Sump Spill	/	2005			2006				N		
RFTS	3401		UBC B865 \	/	2005			2006				N		
RFTS	3402		UBC B881 \	/	2004			2006				N		
RFTS	3403		UBC B883 \	/	2005			2006				N		

Facility Decommissioning

Site Code	RSF ID	Change Flag	Description	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
RFTS	0066		881-S1 \ 881-883 STACK (N of \ 881, west stack)			2004						2005				N		
RFTS	0067		881-S2 \ 881-883 STACK (N of \ 881, east stack)			2004						2005				N		
RFTS	0068		881-S3 \ 881-883 STACK (S of \ 881)			2004						2005				N		
RFTS	0069		881-TUN \ 881-883 TUNNEL \			2004						2005				N		
RFTS	0070		881C \ COOLING TOWER (E \ of 881)			2004						2005				N		
RFTS	0072		883C \ COOLING TOWER (N \ of 881)			2004						2005				N		
RFTS	0098		C865 \ Carpenter shop (former) \ S of 865			2004						2005				N		
RFTS	0120		S865 \ CARPENTER SHOP (S \ of 865)			2004						2005				N		

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Facility Decommissioning

Site Code	RSF ID	Change Flag	Description	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
RFTS	0524		827 \ EMERGENCY GENERATOR BLDG. (865, 875, 883, 886)	\		2004						2005				N		
RFTS	0525		863 \ ELECTRICAL TRANSFORMER BUILDING	\		2004						2005				N		
RFTS	0526		865 \ MATERIAL & PROCESS DEVELOPMENT LAB	\		2004						2005				N		
RFTS	0527		865A \ COOLING TOWER (865)	\		2004						2005				N		
RFTS	0528		867 \ FILTER PLENUM BUILDING (865)	\		2004						2005				N		
RFTS	0529		868 \ FILTER PLENUM BUILDING (865)	\		2004						2005				N		
RFTS	0530		879 \ FILTER PLENUM BUILDING (883)	\		2004						2005				N		
RFTS	0531		883 \ ROLLING & FORMING FACILITY	\		2004						2005				N		
RFTS	0534		Tank 010 \ UNDERGROUND STORAGE TANK (DIESEL) (UST 25) (foamed in place) (S of 827)	\		2004						2005				N		
RFTS	0535		Tank 011 \ UNDERGROUND STORAGE TANK (DIESEL, OUT OF SERVICE) (UST 31) (N of 883)	\		2004						2005				N		
RFTS	0536		Tank 012 \ LIQUID ARGON STORAGE TANK (N of 883)	\		2004						2005				N		
RFTS	0537		Tank 024 \ PROPANE STORAGE TANK (W of 866)	\		2004						2005				N		

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HQ ID: **0363**

Facility Decommissioning

Site Code	RSF ID	Change Flag	Description	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
RFTS	0538		Tank 026 \ CO2 STORAGE TANK - CHEMTRON FIRE SYSTEM TANK (S of 865)	\		2004						2005				N		
RFTS	0539		Tank 252 \ LIQUID ARGON STORAGE TANK (SE of 865)	\		2004						2005				N		
RFTS	0540		Tank 323 \ CARBON DIOXIDE STORAGE TANK (E of 865)	\		2004						2005				N		
RFTS	0541		TK-25 \ ABOVEGROUND STORAGE TANK (DIESEL) (replacement for UST 25/Tank 010) (S of 827)	\		2004						2005				N		
RFTS	0776		881 \ MANUFACTURING & GENERAL SUPPORT	\		2004						2005				N		
RFTS	0778		881F \ FILTER PLENUM BUILDING	\		2004						2005				N		
RFTS	0779		881G \ EMERGENCY GENERATOR BUILDING	\		2004						2005				N		
RFTS	0780		881H \ ELECTRICAL EQUIPMENT	\		2004						2005				N		
RFTS	0783		Tank 002 \ UNDERGROUND STORAGE TANK (DIESEL) (UST 66) (foamed in place) (SE of 881)	\		2004						2005				N		
RFTS	0784		Tank 013 \ UNDERGROUND CONCRETE FOUNDATION DRAIN TANK) (N of 881)	\		2004						2005				N		
RFTS	0785		Tank 014 \ LIQUID NITROGEN STORAGE TANK	\		2004		5/31/1998				2005		5/31/1998		N		

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Facility Decommissioning

Site Code	RSF ID	Change Flag	Description	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
			(N of 881)															
RFTS	0786		Tank 015 \ DRIOX ARGON STORAGE TANK (N of 881)	\		2004		5/31/1998				2005		5/31/1998		N		
RFTS	0787		Tank 016 \ UNDERGROUND FOUNDATION SUMP TANK (N of 881)	\		2004						2005				N		
RFTS	0788		Tank 029 \ HELIUM STORAGE TANK (N of 882)	\		2004						2005				N		
RFTS	0789		TK-66 \ ABOVEGROUND STORAGE TANK (#2 DIESEL) (replacement for UST 66/Tank 002) (SE of 881)	\		2004						2005				N		

Technology Needs

Site Need Code: RF-DD01

Site Need Name: Improved Decommissioning Characterization for Distinguishing Between Transuranic and Low-Levels of Contamination

Focus Area Work Package ID: DD-05

Focus Area Work Package: Material Recycle and Release

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both):

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Internal Duct Characterization System

Internal Duct Characterization System

Internal Duct Characterization System

Small Pipe Characterization System (SPCS)

Small Pipe Characterization System (SPCS)

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Technology Needs

Small Pipe Characterization System (SPCS)

Pipe Explorer (TM) System

Pipe Explorer (TM) System

Pipe Explorer (TM) System

Portable X-Ray, K-Edge Heavy Metal Detector

Portable X-Ray, K-Edge Heavy Metal Detector

Portable X-Ray, K-Edge Heavy Metal Detector

Gamma Ray Imaging System

Gamma Ray Imaging System

Gamma Ray Imaging System

Pipe Crawler Internal Piping Characterization System

Pipe Crawler Internal Piping Characterization System

Pipe Crawler Internal Piping Characterization System

Gamma Cam (TM) Radiation Imaging System

Gamma Cam (TM) Radiation Imaging System

Gamma Cam (TM) Radiation Imaging System

Indoor Radiation Mapping Using Laser Assisted Ranging and Data System

Indoor Radiation Mapping Using Laser Assisted Ranging and Data System

Indoor Radiation Mapping Using Laser Assisted Ranging and Data System

In Situ Object Counting System

In Situ Object Counting System

In Situ Object Counting System

Decommissioning In-Situ Plutonium Inventory Monitor (DISPIM)

Decommissioning In-Situ Plutonium Inventory Monitor (DISPIM)

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Technology Needs

Decommissioning In-Situ Plutonium Inventory Monitor (DISPIM)

Electret Ion Chambers

Electret Ion Chambers

Electret Ion Chambers

Related CCP Milestones

Related Waste Streams

Agree?

Change?

01385: ER-04 - D&D Waste (HAZ, LLW, MLLW, TRU/MTRU, Uncontam)

Y

N

01388: ER-04C - Sorted D&D TRU

Y

N

01389: ER-04D - Sorted D&D Uncontaminated to Disposal

Y

N

01387: ER-04B - Sorted D&D LLM

Y

N

01386: ER-04A - Sorted D&D LLW

Y

N

01390: ER-04E - Sorted D&D HAZ to Disposal

Y

N

01391: ER-04F - Sorted D&D to On Site Placement

Y

N

Site Need Code: RF-DD02

Site Need Name: High Speed, Integrated Characterization System for (1) Radioactive, (2) Hazardous, and (3) Toxic Contamination

Focus Area Work Package ID: DD-12

Focus Area Work Package: D&D of Weapons Components Fabrication Facilities

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both):

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Three Dimensional, Integrated Characterization and Archiving System (3D-ICAS)

Three Dimensional, Integrated Characterization and Archiving System (3D-ICAS)

Three Dimensional, Integrated Characterization and Archiving System (3D-ICAS)

Gamma Ray Imaging System

Gamma Ray Imaging System

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Technology Needs

Gamma Ray Imaging System

Mobile Automated Characterization System

Mobile Automated Characterization System

Mobile Automated Characterization System

Gamma Cam (TM) Radiation Imaging System

Gamma Cam (TM) Radiation Imaging System

Gamma Cam (TM) Radiation Imaging System

Surface Contamination Monitor and Survey Information Management System (SCM/SIMS)

Surface Contamination Monitor and Survey Information Management System (SCM/SIMS)

Surface Contamination Monitor and Survey Information Management System (SCM/SIMS)

Indoor Radiation Mapping Using Laser Assisted Ranging and Data System

Indoor Radiation Mapping Using Laser Assisted Ranging and Data System

Indoor Radiation Mapping Using Laser Assisted Ranging and Data System

In Situ Object Counting System

In Situ Object Counting System

In Situ Object Counting System

Decommissioning In-Situ Plutonium Inventory Monitor (DISPIM)

Decommissioning In-Situ Plutonium Inventory Monitor (DISPIM)

Decommissioning In-Situ Plutonium Inventory Monitor (DISPIM)

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Technology Needs

Related CCP Milestones

Related Waste Streams

Agree?

Change?

01385: ER-04 - D&D Waste (HAZ, LLW, MLLW, TRU/MTRU, Uncontam)

Y

N

01388: ER-04C - Sorted D&D TRU

Y

N

01389: ER-04D - Sorted D&D Uncontaminated to Disposal

Y

N

01387: ER-04B - Sorted D&D LLM

Y

N

01386: ER-04A - Sorted D&D LLW

Y

N

01390: ER-04E - Sorted D&D HAZ to Disposal

Y

N

01391: ER-04F - Sorted D&D to On Site Placement

Y

N

Site Need Code: RF-DD03

Site Need Name: Improved Interior Airborne Particulates Control

Focus Area Work Package ID: DD-12

Focus Area Work Package: D&D of Weapons Components Fabrication Facilities

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both):

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Reactor Surface Contamination Stabilization

Reactor Surface Contamination Stabilization

Concrete Dust Supression System

Concrete Dust Supression System

Strippable Coatings and Fixatives

Strippable Coatings and Fixatives

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Technology Needs

Related CCP Milestones

Related Waste Streams

Agree?

Change?

01385: ER-04 - D&D Waste (HAZ, LLW, MLLW, TRU/MTRU, Uncontam)

Y

N

01388: ER-04C - Sorted D&D TRU

Y

N

01389: ER-04D - Sorted D&D Uncontaminated to Disposal

Y

N

01387: ER-04B - Sorted D&D LLM

Y

N

01386: ER-04A - Sorted D&D LLW

Y

N

01390: ER-04E - Sorted D&D HAZ to Disposal

Y

N

01391: ER-04F - Sorted D&D to On Site Placement

Y

N

Site Need Code: RF-DD04

Site Need Name: Improved Measurement Techniques for Free Release of Property and Salvageable Equipment Contaminated with Radionuclides

Focus Area Work Package ID: DD-12

Focus Area Work Package: D&D of Weapons Components Fabrication Facilities

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both):

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

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Technology Needs

Related CCP Milestones

Related Waste Streams

Agree?

Change?

01385: ER-04 - D&D Waste (HAZ, LLW, MLLW, TRU/MTRU, Uncontam)

Y

N

01388: ER-04C - Sorted D&D TRU

Y

N

01389: ER-04D - Sorted D&D Uncontaminated to Disposal

Y

N

01387: ER-04B - Sorted D&D LLM

Y

N

01386: ER-04A - Sorted D&D LLW

Y

N

01390: ER-04E - Sorted D&D HAZ to Disposal

Y

N

01391: ER-04F - Sorted D&D to On Site Placement

Y

N

Site Need Code: RF-DD08

Site Need Name: Improved Worker Protection Clothing and Systems

Focus Area Work Package ID: DD-12

Focus Area Work Package: D&D of Weapons Components Fabrication Facilities

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both):

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

FRHAM-TEX Anti Contamination Suit

FRHAM-TEX Anti Contamination Suit

NuFab Anti Contamination Suit

NuFab Anti Contamination Suit

Personal Ice Cooling System (PICS)

Personal Ice Cooling System (PICS)

Sealed-Seam Sack Suit

Sealed-Seam Sack Suit

Wireless Remote Monitoring System

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Technology Needs

Wireless Remote Monitoring System

Related CCP Milestones

Related Waste Streams

Agree?

Change?

01385: ER-04 - D&D Waste (HAZ, LLW, MLLW, TRU/MTRU, Uncontam)

Y

N

01388: ER-04C - Sorted D&D TRU

Y

N

01389: ER-04D - Sorted D&D Uncontaminated to Disposal

Y

N

01387: ER-04B - Sorted D&D LLM

Y

N

01386: ER-04A - Sorted D&D LLW

Y

N

01390: ER-04E - Sorted D&D HAZ to Disposal

Y

N

01391: ER-04F - Sorted D&D to On Site Placement

Y

N

Site Need Code: RF-DD09

Site Need Name: Improved Decontamination of Porous Surfaces in Preparation for Building Demolition

Focus Area Work Package ID: DD-05

Focus Area Work Package: Material Recycle and Release

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both):

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Biodegradation of Concrete

Biodegradation of Concrete

Biodegradation of Concrete

2-D Linear Motion System

2-D Linear Motion System

2-D Linear Motion System

Rotary Peening with Captive Shot

Rotary Peening with Captive Shot

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Technology Needs

Rotary Peening with Captive Shot

Centrifugal Shot Blast System

Centrifugal Shot Blast System

Centrifugal Shot Blast System

Concrete Shaver

Concrete Shaver

Concrete Shaver

Remotely Operated Scabbling

Remotely Operated Scabbling

Remotely Operated Scabbling

Related CCP Milestones

Related Waste Streams

Agree?

Change?

01385: ER-04 - D&D Waste (HAZ, LLW, MLLW, TRU/MTRU, Uncontam)

Y

N

01388: ER-04C - Sorted D&D TRU

Y

N

01389: ER-04D - Sorted D&D Uncontaminated to Disposal

Y

N

01387: ER-04B - Sorted D&D LLM

Y

N

01386: ER-04A - Sorted D&D LLW

Y

N

01390: ER-04E - Sorted D&D HAZ to Disposal

Y

N

01391: ER-04F - Sorted D&D to On Site Placement

Y

N

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Technology Needs

Site Need Code: RF-DD10

Site Need Name: Improved Decontamination of Non-Porous Building Property and Structures

Focus Area Work Package ID: DD-12

Focus Area Work Package: D&D of Weapons Components Fabrication Facilities

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both):

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Laser Surface Cleaning

Laser Surface Cleaning

Laser Surface Cleaning

CORPEX Nuclear Decontamination Process

CORPEX Nuclear Decontamination Process

CORPEX Nuclear Decontamination Process

Soda Blasting Decontamination Process

Soda Blasting Decontamination Process

Soda Blasting Decontamination Process

Laser Decontamination and Recycle of Metals

Laser Decontamination and Recycle of Metals

Laser Decontamination and Recycle of Metals

Removal of Contaminants from Equipment and Debris, and Waste Minimization Using TECHXTRACT

Removal of Contaminants from Equipment and Debris, and Waste Minimization Using TECHXTRACT

Removal of Contaminants from Equipment and Debris, and Waste Minimization Using TECHXTRACT

Portable Concentrator for Processing Plutonium Contaminated Solutions

Portable Concentrator for Processing Plutonium Contaminated Solutions

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Technology Needs

Portable Concentrator for Processing Plutonium Contaminated Solutions

Steam Vacuum Cleaning

Steam Vacuum Cleaning

Steam Vacuum Cleaning

Soft Media Blast Cleaning

Soft Media Blast Cleaning

Soft Media Blast Cleaning

Advanced Recyclable Media System

Advanced Recyclable Media System

Advanced Recyclable Media System

Decontamination and Volume Reduction System (DVRS)

Decontamination and Volume Reduction System (DVRS)

Decontamination and Volume Reduction System (DVRS)

Related CCP Milestones

Related Waste Streams

Agree?

Change?

01385: ER-04 - D&D Waste (HAZ, LLW, MLLW, TRU/MTRU, Uncontam)

Y

N

01388: ER-04C - Sorted D&D TRU

Y

N

01389: ER-04D - Sorted D&D Uncontaminated to Disposal

Y

N

01387: ER-04B - Sorted D&D LLM

Y

N

01386: ER-04A - Sorted D&D LLW

Y

N

01390: ER-04E - Sorted D&D HAZ to Disposal

Y

N

01391: ER-04F - Sorted D&D to On Site Placement

Y

N

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Technology Needs

Site Need Code: RF-DD11

Site Need Name: Improved Size Reduction of Contaminated Equipment and Demolition Waste

Focus Area Work Package ID: NMFA-03

Focus Area Work Package: Untitled (pending title by FA)

Focus Area: PLUTOFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Laser Cutting and Size Reduction

Laser Cutting and Size Reduction

Laser Cutting and Size Reduction

High Speed Clamshell Pipe Cutter

High Speed Clamshell Pipe Cutter

High Speed Clamshell Pipe Cutter

Oxy-Gasoline Torch

Oxy-Gasoline Torch

Oxy-Gasoline Torch

Self Contained Pipe Cutting Shear

Self Contained Pipe Cutting Shear

Self Contained Pipe Cutting Shear

Decontamination and Volume Reduction System (DVRS)

Decontamination and Volume Reduction System (DVRS)

Decontamination and Volume Reduction System (DVRS)

Hand Held Shear

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Technology Needs

Hand Held Shear

Hand Held Shear

Innovative Size Reduction Nibblers

Innovative Size Reduction Nibblers

Innovative Size Reduction Nibblers

Innovative Size Reduction Shears

Innovative Size Reduction Shears

Innovative Size Reduction Shears

Related CCP Milestones

Related Waste Streams

Agree?

Change?

01388: ER-04C - Sorted D&D TRU

Y

N

01389: ER-04D - Sorted D&D Uncontaminated to Disposal

Y

N

01387: ER-04B - Sorted D&D LLM

Y

N

01386: ER-04A - Sorted D&D LLW

Y

N

01390: ER-04E - Sorted D&D HAZ to Disposal

Y

N

01391: ER-04F - Sorted D&D to On Site Placement

Y

N

01385: ER-04 - D&D Waste (HAZ, LLW, MLLW, TRU/MTRU, Uncontam)

Y

N

Site Need Code: RF-DD15

Site Need Name: Real-Time Beryllium Surface Characterization

Focus Area Work Package ID: DD-12

Focus Area Work Package: D&D of Weapons Components Fabrication Facilities

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both):

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

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Technology Needs

Related CCP Milestones

Related Waste Streams

Agree?

Change?

01385: ER-04 - D&D Waste (HAZ, LLW, MLLW, TRU/MTRU, Uncontam)

Y

N

01388: ER-04C - Sorted D&D TRU

Y

N

01389: ER-04D - Sorted D&D Uncontaminated to Disposal

Y

N

01387: ER-04B - Sorted D&D LLM

Y

N

01386: ER-04A - Sorted D&D LLW

Y

N

01390: ER-04E - Sorted D&D HAZ to Disposal

Y

N

01391: ER-04F - Sorted D&D to On Site Placement

Y

N

Site Need Code: RF-DD16

Site Need Name: Real-Time Beryllium Air Monitoring

Focus Area Work Package ID: DD-12

Focus Area Work Package: D&D of Weapons Components Fabrication Facilities

Focus Area: DDFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both):

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

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Technology Needs

Related CCP Milestones

Related Waste Streams

Agree?

Change?

01385: ER-04 - D&D Waste (HAZ, LLW, MLLW, TRU/MTRU, Uncontam)

Y

N

01388: ER-04C - Sorted D&D TRU

Y

N

01389: ER-04D - Sorted D&D Uncontaminated to Disposal

Y

N

01387: ER-04B - Sorted D&D LLM

Y

N

01386: ER-04A - Sorted D&D LLW

Y

N

01390: ER-04E - Sorted D&D HAZ to Disposal

Y

N

01391: ER-04F - Sorted D&D to On Site Placement

Y

N

Site Need Code: RF-IF01

Site Need Name: Improved Computer-Based Training Platforms

Focus Area Work Package ID:

Focus Area Work Package:

Focus Area:

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both):

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Site Need Code: RF-WM12

Site Need Name: Bulk Debris Characterization Techniques

Focus Area Work Package ID: MW-01

Focus Area Work Package: Nondestructive Characterization for Treatment, Transportation, and Disposal of MLL and MTRU Waste.

Focus Area: MWFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both):

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

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Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Rocky Flats**

Site Summary Level: **Rocky Flats Environmental Technology Site**

Project **RF020 / Building 881 Cluster Closure Project**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0363**

Technology Needs

Related CCP Milestones

Related Waste Streams

Agree?

Change?

01385: ER-04 - D&D Waste (HAZ, LLW, MLLW, TRU/MTRU, Uncontam)

Y

N